



PATENT ABSTRACTS OF JAPAN

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28.08.01 KR 2001 200152113(71) Applicant: **SAMSUNG ELECTRONICS CO LTD**(72) Inventor: **CHOI KYOUNG-HWAN**(54) **SINGLE ELECTRODE TYPE CELL PACK FOR DIRECT METHANOL FUEL CELL**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a cell pack for a direct methanol fuel cell.

SOLUTION: Electrical connection between unit cells is performed with a first surface and a second surface of an ion-exchange membrane, and since the conductive part connecting the unit cells does not pass through the ion-exchange membrane, leak of fuel is not generated, and an inside electric circuit becomes very simple, since a current collector comes in contact with the whole of an anode and a cathode, not part of them, contact resistance can considerably be reduced, and current loss caused by resistance can remarkably be reduced. Carbon dioxide of reaction byproduct can smoothly be exhausted through a gas exhaust passage formed in the current collector, and as a result, the performance of the cell pack can be enhanced.

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